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PATENT ABSTRACTS OF JAPAN

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(11)Publication number : 08-134606

(43)Date of publication of application : 28.05.1996

(51)Int. Cl.

C22C 38/00

H01F 1/16

(21)Application number : 06-276790

(71)Applicant : NIPPON STEEL CORP

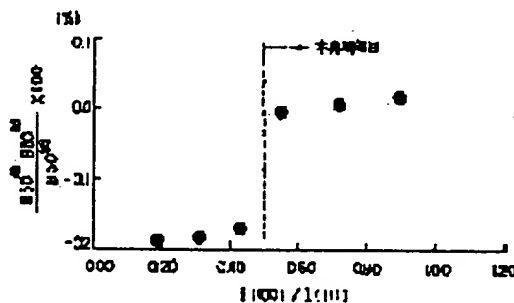
(22)Date of filing : 10.11.1994

(72)Inventor : KAWAMATA RYUTARO
KUBOTA TAKESHI
YAMADA KENJI**(54) NONORIENTED SILICON STEEL SHEET HAVING HIGH MAGNETIC FLUX DENSITY AFTER STRESS RELIEF ANNEALING**

(57)Abstract:

PURPOSE: To produce a nonoriented silicon steel sheet having high magnetic flux density after stress relief annealing by forming a texture, satisfying the prescribed conditions, in a steel sheet before stress relief annealing, in a nonoriented silicon steel sheet containing specific amounts of Si and C.

CONSTITUTION: A nonoriented silicon steel sheet, containing, by weight, $\leq 7.00\%$ Si and $\leq 0.010\%$ C in steel and used for iron core for use in electrical equipment, such as rotary machine iron core and transformer iron core, is provided, before stress relief annealing, with a texture in which $I(100)$ and $I(111)$ as the values of the ratios of the X-ray reflected surface intensities of (100) and (111) orientations in the pseudoplane parallel to a sheet surface in the part between the surface layer and a position at a depth one-fifth the sheet thickness from the surface layer to a random texture, satisfy relational inequality $0.50 \leq I(100)/I(111)$. By this method, the nonoriented silicon steel sheet having high magnetic flux density after stress relief annealing can be obtained.



LEGAL STATUS

[Date of request for examination]

31.08.2000

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]